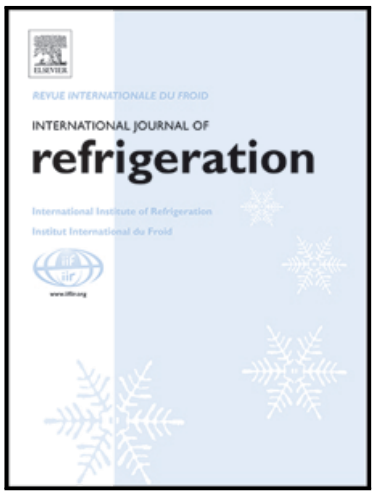

The Hybrid Method Applied to the Plate-Finned Tube Evaporator Geometry

G. Starace , M. Fiorentino , B. Meleleo , C. Risolo

PII: S0140-7007(17)30507-8
DOI: 10.1016/j.ijrefrig.2017.12.007
Reference: JIJR 3849

To appear in: *International Journal of Refrigeration*

Received date: 29 October 2017
Revised date: 13 December 2017
Accepted date: 14 December 2017

Please cite this article as: G. Starace , M. Fiorentino , B. Meleleo , C. Risolo , The Hybrid Method Applied to the Plate-Finned Tube Evaporator Geometry, *International Journal of Refrigeration* (2017), doi: 10.1016/j.ijrefrig.2017.12.007

Highlights

- An innovative method has been applied to design plate finned tube evaporators
- The local behavior at the refrigerant and air sides have been obtained
- The air flow rate distribution through the evaporator has been determined
- The detected area with the highest heat transfer rate leads to system optimization